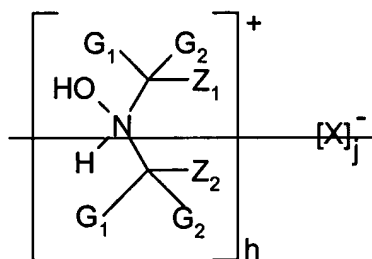


## In the Claims

1. (currently amended) An ink jet ink or ink jet recording material comprising at least one ~~sterically hindered N-hydroxylamine strong acid salt of the formula~~



wherein

~~— G<sub>1</sub> and G<sub>2</sub> are independently alkyl of 1 to 4 carbon atoms or are together pentamethylene;~~

~~— Z<sub>1</sub> and Z<sub>2</sub> are each methyl, or Z<sub>1</sub> and Z<sub>2</sub> together form an unsubstituted linking moiety or a linking moiety substituted by one or more groups selected from an ester, ether, hydroxy, oxo, cyanohydrin, amide, amino, carboxy or an urethane group;~~

~~— X is an anion of a strong acid;~~

~~wherein the total charge of cations h is equal to the total charge of anions j, and~~

~~— wherein the strong acid has a pKa < about 4,~~

or

comprising at least one dialkyl N-hydroxylamine salt of the formula  
(R<sub>51</sub>R<sub>52</sub>N-OH)•(HY), where

R<sub>51</sub> is alkyl of 1 to 36 carbon atoms, cycloalkyl of 5 to 12 carbon atoms or aralkyl of 7 to 9 carbon atoms; or R<sub>51</sub> is said alkyl, cycloalkyl or aralkyl substituted by one to six alkyl of 1 to 12 carbon atoms, halogen, cyano, E<sub>41</sub>O-, E<sub>41</sub>CO-, E<sub>41</sub>OCO-, E<sub>41</sub>COO-, E<sub>41</sub>S-, E<sub>41</sub>SO-, E<sub>41</sub>SO<sub>2</sub>-, -NH<sub>2</sub>, -NHE<sub>41</sub>, -NE<sub>41</sub>E<sub>42</sub>, -PO(OE<sub>41</sub>)(OE<sub>42</sub>) or -OPO(OE<sub>41</sub>)(OE<sub>42</sub>) groups;

R<sub>52</sub> is hydrogen or independently has the same meaning as R<sub>51</sub>, where at least one of R<sub>51</sub> and R<sub>52</sub> contains a hydrogen alpha to the -NOH moiety; or

R<sub>51</sub> and R<sub>52</sub> together form a C<sub>2-12</sub>heterocyclic ring which contains at least one carbon substituted hydrogen alpha to the -NOH moiety, where said C<sub>2-12</sub>heterocyclic ring is unsubstituted or is substituted by one to three alkyl of 1 to 12 carbon atoms, halogen, cyano, E<sub>41</sub>O-, E<sub>41</sub>CO-, E<sub>41</sub>OCO-, E<sub>41</sub>COO-, E<sub>41</sub>S-, E<sub>41</sub>SO-, E<sub>41</sub>SO<sub>2</sub>-, -NH<sub>2</sub>, -NHE<sub>41</sub>, -NE<sub>41</sub>E<sub>42</sub>, -PO(OE<sub>41</sub>)(OE<sub>42</sub>) or -OPO(OE<sub>41</sub>)(OE<sub>42</sub>) groups; or where said C<sub>2-12</sub>heterocyclic ring is interrupted by one to three -O-, -NE<sub>41</sub>-, -CO-, -CONE<sub>41</sub>-, -S-, -SO-, -SO<sub>2</sub>-, -COO-, -PO<sub>3</sub>- or -PO<sub>4</sub>E<sub>41</sub> groups; or where said heterocyclic ring is both substituted and interrupted by said groups;

E<sub>41</sub> and E<sub>42</sub> independently are hydrogen, alkyl of 1 to 4 carbon atoms or alkyl of 1 to 4 carbon atoms substituted by one to three hydroxyl groups; or E<sub>41</sub> and E<sub>42</sub> independently are an oligomer of poly(ethylene glycol) or poly(propylene glycol) terminated by hydroxyl, methoxy, acetate or propionate, where the oligomer has a molecular weight up to about 500; and

HY is an inorganic or organic acid.

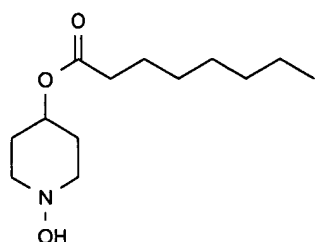
## **2-9. (canceled)**

**10. (currently amended)** An ink jet ink or ink jet recording material according to claim **1[[9]]** where Y is phosphate, phosphonate, carbonate, bicarbonate, nitrate, chloride, bromide, bisulfite, sulfite, bisulfate, sulfate, borate, formate, acetate, benzoate, citrate, oxalate, tartrate, acrylate, polyacrylate, fumarate, maleate, itaconate, glycolate, gluconate, malate, mandelate, tiglate, ascorbate, polymethacrylate, a carboxylate of nitrilotriacetic acid, hydroxyethylethylenediaminetriacetic acid,

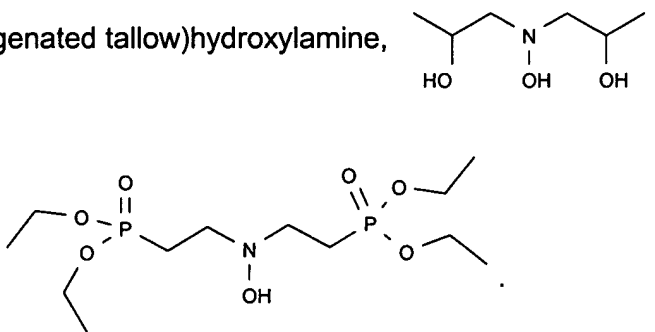
ethylenediaminetetraacetic acid or of diethylenetriaminepentaacetic acid, a diethylenediaminetetraacetic acid or of diethylenetriaminepentaacetic acid, an alkylsulfonate or an arylsulfonate.

**11. (currently amended)** An ink jet ink or ink jet recording material according to claim **1**[[9]] where Y is chloride, bisulfate, sulfate, phosphate, nitrate, ascorbate, formate, acetate, benzoate, oxalate, citrate, a carboxylate of ethylenediaminetetraacetic acid or of diethylenetriaminepentaacetic acid or polyacrylate.

**12. (currently amended)** An ink jet ink or ink jet recording material according to claim **1**[[9]] where the dialkyl N-hydroxylamine salts are salts of N,N-dibenzylhydroxylamine, N,N-dimethylhydroxylamine, N,N-diethylhydroxylamine, N,N-bis(2-hydroxypropyl)hydroxylamine, N,N-bis(3-hydroxypropyl)hydroxylamine, N,N-bis(2-carboxyethyl)hydroxylamine, N,N-bis(benzylthiomethyl)hydroxylamine, N,N-dioctylhydroxylamine, N,N-dilaurylhydroxylamine, N,N-didodecylhydroxylamine, N,N-ditetradecylhydroxylamine, N,N-dihexadecylhydroxylamine, N,N-dioctadecylhydroxylamine, N-hexadecyl-N-tetradecylhydroxylamine, N-hexadecyl-N-heptadecylhydroxylamine, N-hexadecyl-N-octadecylhydroxylamine, N-heptadecyl-N-octadecylhydroxylamine, N-methyl-N-octadecylhydroxylamine or N,N-di(hydrogenated tallow)hydroxylamine,



or



**13. (currently amended)** An ink jet ink or ink jet recording material according to claim **1**[[9]] where the dialkyl N-hydroxylamine salts are salts of N,N-diethylhydroxylamine, N,N-bis(2-hydroxypropyl)hydroxylamine, N,N-bis(3-hydroxypropyl)hydroxylamine, N,N-dibenzylhydroxylamine or the N,N-di(alkyl)hydroxylamine produced by the direct oxidation of N,N-di(hydrogenated tallow)amine.

**14. (currently amended)** An ink jet ink or ink jet recording material according to claim **1** where the dialkyl N-hydroxylamine salt is tris(N,N-diethylhydroxylammonium) citrate.

**15. (currently amended)** An ink jet ink according to claim **1** which comprises about 0.01 to about 30% by weight of ~~at least one sterically hindered N-hydroxylamine strong acid salt or~~ at least one dialkyl N-hydroxylamine salt, based on the weight of the ink jet ink.

**16. (currently amended)** An ink jet recording material according to claim **1** which comprises about 1 to about 10000 mg/m<sup>2</sup> of ~~at least one sterically hindered N-hydroxylamine strong acid salt or~~ at least one dialkyl N-hydroxylamine salt.

**17. (original)** An ink jet ink or ink jet recording material according to claim **1** further comprising a UV absorber selected from the group consisting of the hydroxyphenylbenzotriazoles, the tris-aryl-s-triazines, the benzophenones, the  $\alpha$ -cyanoacrylates, the oxanilides, the benzoxazinones, the benzoates and the  $\alpha$ -alkyl cinnamates.

**18. (original)** An ink jet ink or ink jet recording material according to claim **1** further comprising a UV absorber selected from the group consisting of the hydroxyphenylbenzotriazoles, the tris-aryl-s-triazines and the benzophenones.

**19. (original)** An ink jet ink or ink jet recording material according to claim **1** further comprising a UV absorber selected from the group consisting of

5-chloro-2-(2-hydroxy-3,5-di-tert-butylphenyl)-2H-benzotriazole;  
2-(2-hydroxy-3,5-di-tert-butylphenyl)-2H-benzotriazole;  
2-(2-hydroxy-3,5-di-tert-amylphenyl)-2H-benzotriazole;  
2-(2-hydroxy-3,5-di- $\alpha$ -cumylphenyl)-2H-benzotriazole;

2-(2-hydroxy-3- $\alpha$ -cumyl-5-tert-octylphenyl)-2H-benzotriazole;  
 2-(2-hydroxy-5-tert-octylphenyl)-2H-benzotriazole;  
 2-(2-hydroxy-5-methylphenyl)-2H-benzotriazole;  
 2-(2-hydroxy-3-tert-butyl-5-methylphenyl)-2H-benzotriazole-5-sulfonic acid, sodium salt;  
 3-tert-butyl-4-hydroxy-5-(2H-benzotriazol-2-yl)-hydrocinnamic acid;  
 12-hydroxy-3,6,9-trioxadodecyl 3-tert-butyl-4-hydroxy-5-(2H-benzotriazol-2-yl)-hydro-  
 cinnamate;  
 octyl 3-tert-butyl-4-hydroxy-5-(2H-benzotriazol-2-yl)-hydrocinnamate;  
 2-(3-tert-butyl-2-hydroxy-5-(2-( $\omega$ -hydroxy-octa-(ethyleneoxy)carbonyl-ethyl)-phenyl)-2H-  
 benzotriazole;  
 4,6-bis(2,4-dimethylphenyl)-2-(4-octyloxy-2-hydroxyphenyl)-s-triazine;  
 2,4-bis(2-hydroxy-4-butyloxyphenyl)-6-(2,4-bis-butyloxyphenyl)-1,3,5-triazine;  
 2-[4-(dodecyloxy/tridecyloxy-2-hydroxypropoxy)-2-hydroxyphenyl]-4,6-bis(2,4-  
 dimethylphenyl)-1,3,5-triazine;  
 the reaction product of tris(2,4-dihydroxyphenyl)-1,3,5-triazine with the mixture of  $\alpha$ -  
 chloropropionic esters (made from isomer mixture of C<sub>7</sub>-C<sub>9</sub>alcohols);  
 2,4-dihydroxybenzophenone;  
 2,2',4,4'-tetrahydroxy-5,5'-disulfobenzophenone, disodium salt;  
 2-hydroxy-4-octyloxybenzophenone;  
 2-hydroxy-4-dodecyloxybenzophenone;  
 2,4-dihydroxybenzophenone-5-sulfonic acid and salts thereof;  
 2-hydroxy-4-methoxybenzophenone-5-sulfonic acid and salts thereof;  
 2,2'-dihydroxy-4,4'-dimethoxybenzophenone-5,5'-disodium sulfonate;  
 3-(2H-benzotriazol-2-yl)-4-hydroxy-5-sec-butylbenzenesulfonic acid, sodium salt; and  
 2-(2'-hydroxy-3'-tert-butyl-5'-polyglycolpropionate-phenyl)benzotriazole.

**20. (currently amended)** An ink jet system, comprising a recording material and at least one colored ink to be applied to the recording material by means of an ink jet nozzle, wherein at least either the recording material or at least one colored ink comprises ~~at least one sterically hindered N-hydroxylamine strong acid salt~~ or at least one dialkyl N-hydroxylamine salt according to claim 1.

**21. (currently amended)** A process for stabilizing ink jet prints,

which process comprises applying to a recording material for ink jet printing an ink composition comprising

an aqueous or an organic solvent dye solution and

~~at least one sterically hindered N-hydroxylamine strong acid salt or at least one dialkyl N-hydroxylamine salt according to claim 1 and~~

drying said recording material.

**22. (currently amended)** A process for stabilizing ink jet prints,

which process comprises applying to a recording material for ink jet printing

a casting or coating dispersion or an aqueous or organic solution comprising

~~at least one sterically hindered N-hydroxylamine strong acid salt or at least one dialkyl N-hydroxylamine salt according to claim 1 and~~

further applying either an ink composition comprising

an aqueous or an organic solvent dye solution, or an ink composition comprising an aqueous or an organic solvent dye solution and ~~at least one sterically hindered N-hydroxylamine strong acid salt or at least one dialkyl N-hydroxylamine salt according to claim 1 and~~

drying said recording material.